



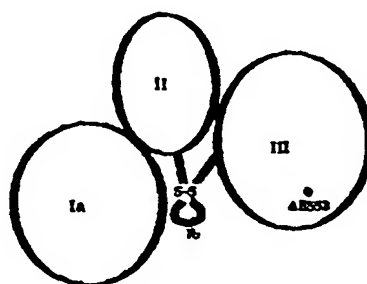
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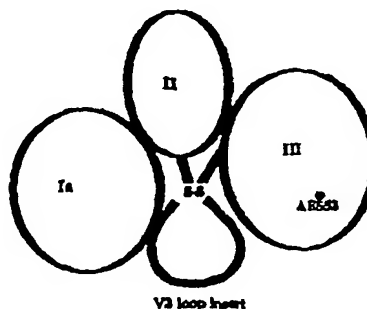
(54) Title: *PSEUDOMONAS* EXOTOXIN A-LIKE CHIMERIC IMMUNOGENS FOR ELICITING A SECRETORY IGA-MEDIATED IMMUNE RESPONSE

(57) Abstract

This invention provides methods of eliciting a secretory IgA-mediated immune response in a subject by administering a *Pseudomonas* exotoxin A-like chimeric immunogens that include a non-native epitope in the Ib domain of *Pseudomonas* exotoxin. Compositions comprising secretory IgA antibodies that specifically recognize an epitope of HIV-1 also are provided.

1 A *Pseudomonas* exotoxin

1 B V3-loop toxin chimera



1 C

Protein	Ib Loop Region Amino Acid Sequence	Molecular Mass
wild-type PE	GAANADVVSITCPVAAGECAGPAD-	67,122 Da
ntPE-V3MN14	GAANLHCGIHIGFGRAFYITKCMQGPAD-	67,729 Da
ntPE-V3MN26	GAANLHCNYNKRKRIHIGFGRAFYITKNIIGTICMQGPAD-	68,937 Da
ntPE-V3ThE26	GAANLHCSNNTRTSITIGFGQVFYRTGDIIGDDICMQGPAD-	68,700 Da
ntPE-PP16	GAANLQCRLEKKKGNYVVDHRLCLQGPAD-	67,862 Da